

No:1

GTAGCC CTCAGAACCGTCTCGGAA ( $\rightarrow$ )

AF458349	.....	C.....	C.T.....	G.....	.....	.....	.....	G.C.T.G.C.....
AF458345	.....	C.....	T.....	G.....	.....	.....	.....	G.C.T.G.C.....
AF458346	.....	C.....	T.....	G.....	.....	T.....	.....	G.C.T.G.CC.....
AF533540	.....	.....	.....	.....	.....	.....	.....	.....
AY187012	.....	.....	.....	.....	.....	.....	.....	.....
AY187013	.....	.....	.....	G.....	.....	.....	.....	.....
AY187014	.....	.....	.....	.....	.....	.....	.....	.....
AY187015	.....	.....	.....	.....	.....	.....	.....	.....
AY262283	.....	.....	.....	.....	.....	.....	.....	.....
AY277251	.....	AT.T.....	AT.G.C.....	.....	C.....	AT.....	T.....C.....	G.....
AY277252	.....	.....	.....	.....	.....	.....	.....	.....
AY278441	.....	.....	.....	.....	.....	.....	.....	.....
AY278442	.....	.....	.....	.....	.....	.....	.....	.....
AY268132	.....	.....	.....	.....	.....	A.....	.....	.....
AY268133	.....	.....	.....	.....	.....	.....	.....	.....
AY490240	.....	.....	T.....	.....	.....	.....	.....	.....
Kunjin	.....	.....	.....	.....	.....	.....	.....	.....
D00246	.....	.....	T.....	.....	.....	.....	A.....	G.....
AY274504	.....	.....	T.....	.....	.....	.....	A.....	G.....
AY274505	.....	.....	T.....	.....	.....	.....	A.....	G.....
L49311	.....	.....	T.....	G.....	.....	C.....	A.....G.....	T.G.C.....
L48978	.....	.....	T.....	.....	.....	.....	A.....	G.....
L48979	.....	.....	T.....	.....	.....	.....	A.....	G.....
AF297840	.....	.....	T.....	.....	.....	.....	C.....	G.....
AF297841	.....	.....	T.....	.....	.....	.....	A.....	G.....
AF297842	.....	.....	T.....	.....	.....	.....	A.....	G.....
AF297843	.....	.....	T.....	.....	.....	.....	A.....	G.....
AF297844	.....	.....	T.....	.....	.....	.....	A.....	G.....
AF297845	.....	.....	T.....	.....	.....	.....	A.....	G.....
AF297846	.....	.....	T.....	.....	.....	.....	A.....	G.....
AF297847	.....	T.....	T.....	.....	.....	.....	C.....	T.....
AF297848	.....	.....	T.....	.....	.....	.....	A.....	G.....
AF297849	.....	.....	T.....	.....	.....	.....	A.....	G.....
AF297850	.....	.....	T.....	.....	.....	.....	A.....	G.....
AF297851	.....	.....	T.....	.....	.....	.....	C.....GTA.....	G.G.....G.AG...GC
AF297852	.....	.....	T.....	.....	.....	.....	C.....	G.....
AF297853	.....	.....	T.....	.....	.....	.....	C.....	G.....
AF297854	.....	.....	T.....	.....	.....	.....	A.....	G.....
AF297855	.....	.....	T.....	.....	.....	.....	A.....	G.....GA
AF297856	.....	G.....	T.....	.....	.....	.....	A.....	G.....
AF297857	.....	.....	T.....	.....	.....	G.....	A.....CCT.....	GA...G.....
AF297858	.....	.....	T.....	.....	.....	.....	A.....	G.....
AF297859	.....	.....	T.....	.....	.....	.....	A.....	G.....

AF458351		T.			G.A.		G.
AF458356		T		C	A.		G
L24512		T.			A.		G
JEV							
AB051292	GTT	T	T.AC	CG	AGTGG.A.	C.T.	TG.GCACC.G.G.G.
AF014160	GT	T	T.AC	TA	AAGTGA.A.	C.T.	TG.TCAC.G.G.G.
AF014161	GT	T	T.AC	TA	AAGTGA.A.	C.T.	TG.TCAC.G.G.G.
AF045551	GTT	T	T.AC	CG	AGTGG.A.	C.T.	TG.TCAC.C.G.G.
AF069076	GT	T	T.AC	CA	AAGTGA.A.	C.T.	TG.TCAC.G.G.G.
AF075723	GT	C.	T.AC	CA	GAGTGA.A.	C.T.	TG.TCAC.G.G.G.
AF080251	GT	T	T.AC	CA	AAGTGA.A.	T..G.	TG.TCAC.C.G.G.
AF098735	GT	T	T.AC	CA	AAGTGA.A.	C.T.	TG.TCAC.G.G.G.
AF098736	GT	T	T.AC	CA	AAGTGA.A.	C.T.	TG.TCAC.G.G.
AF098737	GT	T	T.AC	CA	AAGTGA.A.	C.T.	TG.TCAC.G.G.G.
AF217620	GTT	T	T.AC	CA	AGGTGA.A.	T.	TG.TCAC.C.G.GG.
AF221499	GT	T	T.AC	CA	AAGTGA.A.	T.	TG.TCAC.G.G.G.
AF221500	GT	T	T.AC	CA	AAGTGA.A.	T.	TG.TCAC.G.G.G.
AF254452	GT	T	T.AC	CA	AAGTGA.A.	C.T.	TG.TCAC.G.G.G.
AF254453	GT	A.	T.AC	CA	AAGTGA.A.	C.T.	TG.TCAC.G.G.G.
AF315119	GT	T	T.AC	CA	AAGTGA.A.	T	TG.TCAC.G.G.G.
AF416457	GT	T	T.AC	CAA	AAGTGA.A.	T.	TG.TCAC.G.G.G.
AF486638	GT	T	T.AC	CA	AAGTGA.A.	C.T.	TG.TCAC.G.G.G.
U14163	GT	T	T.AC	CA	AAGTGA.A.	T.	TG.TCAC.G.G.G.
U15763	GT	T	T.AC	CA	AAGTGA.A.	T.	TG.TCAC.G.G.G.
L48961	GT	T	T.AC	CG	AAGTGA.A.	T.	TG.TCAC.G.G.G.
U47032	GT	T	T.AC	CA	AAGTGA.A.	T.	TG.TCAC.G.G.
M18370	GT	T	T.AC	CA	AAGTGA.A.	T.	TG.TCAC.G.G.G.
M55506	GT	T	T.AC	CA	AAGTGA.A.	T.	TG.TCAC.G.G.G.
D90195	GT	T	T.AC	CA	AAGTGA.A.	T.	TG.TCAC.G.G.G.
D90194	GT	T	T.AC	CA	AAGTGA.A.	T.	TG.TCAC.G.G.G.
AF311748	GT	T	T.AC	CA	AAGTGA.A.	T.	TG.TCAC.G.G.G.
AF092550	GTT	T	T.AC	CA	AGGTGA.A.	T.	TG.TCAC.C.G.GG.
AF092552	GTT	T	T.AC	CA	AGGTGA.A.	T.	TG.TCAC.C.G.GG.
AF092553	GTT	T	T.AC	CA	AGGTGA.A.	T.	TG.TCAC.C.G.GG.
AF139531	GTT	T	T.AC	CA	AGGTGA.A.	T.	TG.TCAC.C.G.GG.
AF148900	GTT	T	T.AC	CA	AGGTGA.A.	T.	TG.TCAC.C.G.GG.
AF148901	GTT	T	T.AC	CA	AGGTGA.A.	T.	TG.TCAC.C.G.GG.
AF148902	GTT	T	T.AC	CA	AGGTGA.A.	T.	TG.TCAC.C.G.GG.
AF218068	GTT	T	T.AC	CA	AGGTGA.A.	T.	TG.TCAC.C.G.GG.
AF289816	GT	T	T.AC	CG	AGGTGG.A.	T.	TG.TCAC.C.G.G.
AF318291	GT	T	T.AC	CG	AGGTGG.A.	T.	TG.TCAC.C.G.G.
L48967	GTT	T	T.AC	CA	AGGTGA.A.	T.	TG.TCAC.C.G.GG.
L48968	GTT	T	T.AC	CA	AGGTGA.A.	T.	TG.TCAC.C.G.GG.

AY184212	..GT.....	C.....	T.T.AC..CG..	GAGTGA.A.....	A.....	T.....	TG.TCAC..G.TG..GG...	
AY251616	..GT.....	T.....	T.T.AC..CG..	AGGTGG.A.....	T.....	T.....	TG.TCAC.C.G.G..G...	
AY278556	..GTT.....	T.....	T.T.AC..CG..	AGGTGG.A.....	C.....	T.....	TG.TCAC.C.G.G..G...	
AY316157	..GTT.....	T.....	T.T.AC..CG..	AGGTGG.A.....	..A.....	C.....	T.....	TG.TCAC.C.G.G..G...
L54067	..GTT.....	T.....	T.T.AC..CA..	AGGTGA.A.....	T.....	T.....	TG.TCAC.C.G.G..GG...	
L54068	..GTT.....	T.....	T.T.AC..CA..	AGGTGA.A.....	T.....	T.....	TG.TCAC.C.G.G..GG...	
L54069	..GTT.....	T.....	T.T.AC..CA..	AGGTGA.A.....	T.....	T.....	TG.TCAC.C.G.G..GG...	
L54070	..GTT.....	T.....	T.T.AC..CA..	AGGTGA.A.....	T.....	T.....	TG.TCAC.C.G.G..GG...	
L54071	..GTT.....	T.....	T.T.AC..CA..	AGGTGA.A.....	T.....	T.....	TG.TCAC.C.G.G..GG...	
L54072	..GTT.....	T.....	T.T.AC..CA..	AGGTGA.A.....	T.....	T.....	TG.TCAC.C.G.G..GG...	
L54122	..GTT.....	T.....	T.T.AC..CA..	AGGTGA.A.....	T.....	T.....	TG.TCAC.C.G.G..GG...	
L54123	..GTT.....	T.....	TTT.AC..CG..	AGGTGG.A.....	CTCCT.....	TT.....	TCACC.G..G..G...	
AF306514	..GT.....	C.....	TTT.AC..CA..	AAGTGA.A.....	T.....	T.....	TT.TCAC..G..G..G...	
AF306515	..TT.....	T.....	TTT.AC..CA..	AAGTGA.A.....	T.....	T.....	TT.TCAC..G..G..G...	
AF306516	..GT.....	T.....	T.T.AC..CA..	AGGTGA.A.....	..A.....	T.....	TT.TCAC..G..G..G...	
AF306517	..GT.....	T.....	T.T.AC..CA..	AGGTGA.A.....	..A.....	T.....	TT.TCAC..G..G..G...	
SLEV								
BFS1750-C	TGG.....	T.T.....	AATCT.GCCGAGT	GCA.....	C.....	TT..A.....	G...GTCC.TAGCACGCTAG..CTGGAGAGG.C	
1750-Std	TGG.....	T.T.....	AATCT.GCCGAGT	GCA.....	C.....	TT..A.....	G...GTCC.TAGCACGCTAG..CTGGAGAGG.C	
TD6-4G-C	TGG.....	T.T.....	AATCT.GCCGAGT	GCA.....	C.....	TT..A.....	G...GTCC.TGGCACGCTAG..CTGGAGAGG.C	
TD6-4G-20	TGG.....	T.T.....	AATCT.GCCGAGT	GCA.....	C.....	TT..A.....	G...GTCC.TGGCACGCTAG..CTGGAGAGG.C	
CoaV750	TGG.....	T.C.....	AATCT.GCTGAGT	GCA.....	C...G	TT..AT.....	G...GTCC.TGGCACGCTAG..CTGGAGAGG.C	
L695121.05	TGG.....	T.T.....	AATCC.GCTGGGT	GCA.....	C.....	TT..A.....	G...GTCC.TGGCATGCTAG..CTGGAGAGG.C	
TNM771K-C	TGG.....	C.T.....	AATCT.GCTGGGT	GCA.....	C.....	TT..A.....	G...GTCC.TGGCACGCTAG..CTGGAGAGG.C	
MSI-7-C	TGG.....	T.T.....	AATCC.GCTGGGT	GCA.....	C.....	TT..A.....	G...GTCC.TGGCACGCTAG..CTGGAGAGG.C	
Kern217	TGG.....	T.T.....	AATCC.GCTGGGT	GCA.....	C.....	TT..A.....	G...GTCC.TGGCACGCTAG..CTGGAGAGG.C	
CoaV608	TGG.....	T.T.....	AATCC.GCTGGGT	GCA.....	C.....	TT..A.....	G...GTCC.TGGCACGCTAG..CTGGAGAGG.C	
TBH-28	TGG.....	T.T.....	AATCT.GCTGGGT	GCA.....	C.....	TT..A.....	G...GTCC.TGGCACGCTAG..CTGGAGAGG.C	
VR1265	TGG.....	T.T.....	AATCT.GCTGGGT	GCA.....	C.....	TT..A.....	G...GTCC.TGGCACGCTAG..CTGGAGAGG.C	
CoaV353	TGG.....	T.T.....	AATCT.GCTGGGT	GCA.....	C.....	TT..A.....	G...GTCC.TGGCACGCTAG..CTGGAGAGG.C	
MVEV								
VR77								
AF161266	.....	T.C.....	T.ATTCTCC.CGGTTG	A.....	T.C.....	AG.AGT...	TGCCAACATGGAGATG.A	
M35172	.....	T.C.....	T.ATTCTCC.CGGTTG	A.....	T.C.....	AG.AGT...	TGCCAACATGGAGATG.A	
L48972	.....	T.C.....	T.ATTCTCC.CGGTTG	A.....	T.C.....	AG.AGT...	TGCCAACATGGAGATG.A	
L48973	.....	T.C.....	T.ATTCTCC.CGGTTG	A.....	T.C.....	AG.AGT...	TGCCAACATGGAGATG.A	
L48974	.....	T.C.....	T.ATTCTCC.CGGTTG	A.....	T.C.....	AG.AGT...	TGCCAACATGGAGATG.A	
L48975	.....	T.C.....	A.TACTCTCT.CGGTTG	A.....	T.C.....	AG.AGT...	TGCCAACATGGAGATG.A	
L48976	.....	T.C.....	T.ATTCTCC.CGGTTG	A.....	T.C.....	AG.AGT...	TGC.AACATGGAGATG.A	
Koutango virus								
L48980	.....	C.....	T.T....G.A..	....C....	T.....	.....	G....T..TTC.....	

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[illegible]

AF416457	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
AF486638	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A..T...G.....
U14163	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
U15763	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
L48961	CTC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
U47032	CCC..C.....	AGG..T..G.....	A.....	CAT	TTG..T.....	A.....G.....
M18370	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
M55506	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
L78128	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
D90195	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
D90194	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
AF311748	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
AY184212	CCCT..C.....	AAG..T.....	A.....	CAT	TTG..T.....	A.....G.....
AY316157	CCC..C.....	AGG..T.....	A.....	CAA	TTG..T.....	A.....G.....
AF306514	CCC..C.....	AGG..T..T.....	A.....	CAA	TTG..T.....	A.....G.....
AF306515	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
AF306516	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
AF306517	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
D00037	CCT..T..T.....	T..T..T.....	T..T.....	CT	TTG..T.....	A.....G.....
M14933	CCT..T..T.....	T..T..T.....	T..T.....	CT	TTG..T.....	A.....G.....
SLEV						
BFS1750-C	CCG..C.....	AGAC..G.....	A.....	T...G TT...G.	A.....	A.....
.1750-Std	CCG..C.....	AGAC..G.....	A.....	C.GA		
TD6-4G-C	CCG..C.....	AGAT..G.....	A.....	T...G TT...G.	A.....	A.....
TD6-4G-20	CCG..C.....	AGAT..G.....	A.....	T...G TT...G.	A.....	A.....
CoaV750	CCG..C.....	AGAT..G.....	A.....	C.G		
L695121.05	CCG..C.....	AGAC..G.....	A.....	T...G TT...G.	A.....	A.....
TNM771K-C	CCG..C.....	AGAC..G.....	A.....	T...G TT...G.	A..N..	A.....
MSI-7-C	CCG..CA.....	AGAC..G.....	A.....	T...G TT...G.	A.....	A.....
Kern217	CCG..CA.....	AGAC..G.....	A.....	T...G TT...G.	A.....	A.....
CoaV608	CCG..CA.....	AGAC..G.....	A.....	T...G TT...G.	A.....	A.....
TBH-28	CCG..C.....	AGAC..G.....	A.....	T...G TT...G.	A.....	A.....
VR1265	CCG..C.....	AGAC..G.....	A.....	T...G TC...G.	A.....	A.....
CoaV353	CCG..C.....	AGAC..G.....	A.....	T...G TT...G.	A.....	A.....
MVEV						
VR77	.CG.C .....	A.G.G..T...C.....	A.....	ACT.T .....	G .AT... C.....	AA.....
AF161266	.CG.C .....	A.G.G..T...C.....	A.....	ACT.T .....	G .AT... C.....	AA.....
M35172	.CG.C .....	A.G.G..T...C.....	A.....	ACT.T .....	G .AT... C.....	AA.....

SEQ ID NO 70  
 CCCCCTTCCTGATCTCCAATCTCCTCTGGG  
 GGACTAGAGGTTAGAGGAGACCCCGCGG  
 AF196835 CACGCGGTTAGAGGAGACCCCGCGG  
 AF260967 .....G..  
 AF260968 .....  
 AF260969 .....G..  
 AF481864 .....  
 M12294 .....T AAA .....A.T..G.. A.C..A.  
 AF206518 .....G..  
 AF317203 .....G..  
 AF202541 .....G..  
 AF404757 .....G..A ..  
 AF404753 .....G..  
 AF404754 .....G..  
 AF404755 .....G..  
 AF404756 .....G..  
 AF017254 .....  
 AF208017 .....A..G.....A.T..G.. A.C..A.  
 AF533540 .....G..  
 AY262283 .....G..  
 AY277251 .....A..A..G.....T...CATA..AG .....AGAG..  
 AY277252 .....G.....  
 AY278441 .....G.....G.....  
 AY278442 .....G.....  
 AY268132 .....G.....

AY268133 .....G..

AY490240 .....G..

Kunjin virus

AY274504 ...A.T.....T.C.G....G..

AY274505 ...A.T.....T.C.G....G..

L24512 ...A.T.....T.C.G....G..

.....G..

Japanese encephalitis virus

AB051292 TA.T.T.....T...AAA C..CA TT .TG.....AG.CCC..

C.....G.AGG...T.....A.....CATTGC.TCA..

AF014160 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..

C.....AGG...T.....A.....CATTGC.TCA..

AF014161 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..

C.....AGG...T.....A.....CATTGC.TCA..

AF045551 TTA.T.T.....T...AAA C..AA TT .TG.....AG.CCC..

C.....AGG...T.T...A.....CAATTGC.T..

AF069076 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..

C.....AGG...T.....A.....CATTGC.TCA..

AF075723 .GA..T.T.....T...AAA T..CA A. .TG.....AG.CCC..

C.....AGG...T.....A.....CATTGC.TCA..

AF080251 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..

C.....AGG...T.....A.....CATTGC.TCA..

AF098735 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CTC..

C.....AGG...T.....A.....CATTGC.TCA..

AF098736 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..

C.....AGG...T.....A.....CATTGC.TCA..

AF098737 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..

C.....AGG...T.....A.....CATTGC.TCA..

AF217620 .GA..T.T.....T...AAA C..CA AT .TG.....AG.TC..

C.....AGG...T.....A.....CATTGC.TCA..

AF221499 .GA..T.T.....T...AAA C..TA A. .TG.....AG.CTC..

C.....AGG...T.....A.....CATTGC.TCA..

AF221500 .GA..T.T.....T...AAA C..TA A. .TG.....AG.CTC..

C.....AGG...T.....A.....CATTGC.TCA..

AF254452 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..

C.....AGG...T.....A.....CATTGC.TCA..

AF254453 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..

C.....AGG...T.....A.....CATTGC.TCA..

AF315119 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..

C.....AGG...T.....A.....CATTGC.TCA..

AF416457 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..

C.....AGG...T.....A.....CATTGC.TCA..

AF486638 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..

C.....AGG...T.....A.....CATTGC.TCA..

U14163 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..

C.....AGG...T.....A.....CATTGC.TCA..



U15763 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..  
C.....AGG..T.....A.....CAATTGC.TCA.  
L48961 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CTC..  
C.....AGG..T.....A.....CAATTGC.TCA.  
U47032 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..  
C.....AGG..T.....A.....CAATTGC.TCA.  
M18370 .GA..T.T.....T...AAA C..CA AT .TG.....AG.CCC..  
C.....AGG..T.....A.....CAATTGC.TCA.  
M55306 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..  
C.....AGG..T.....A.....CAATTGC.TCA.  
L78128 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..  
C.....AGG..T.....A.....CAATTGC.TCA.  
D90195 .GA..T.T.....T...AAA C..CA AT .TG.....AG.CCC..  
C.....AGG..T.....A.....CAATTGC.TCA.  
D90194 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..  
C.....AGG..T.....A.....CAATTGC.TCA.  
AF311748 .GA..T.T.....T...AAA C..CA A. .TG.....AG.CCC..  
C.....AGG..T.....A.....CAATTGC.TCA.  
AY184212 .GA..AT.T.....T...AAA C..CA A. .TG.....AG.CCCT..  
C.....AGG..T.....A.....CAATTGC.TCA.  
AY316157 .TA..T.T.....T...AAA C..CA T. .TG.....AG.CCC..  
C.....AGG..T.....A.....CAATTGC.TCA.  
AF306514 .TA..T.T.....T...AAA C..AA TT .TG.....AG.CCC..  
C.....AGG..T.....A.....CAATTGC.TCA.  
AF306515 .GA..T.T.....T...AAA C..AA AA .TG.....AG.CCC..  
C.....AGG..T.....A.....CAATTGC.TCA.  
AF306516 .GA..T.T.....T...AAA C..AA AA .TG.....AG.CCC..  
C.....AGG..T.....A.....CAATTGC.TCA.  
AF306517 .GA..T.T.....T...AAA C..AA AA .TG.....AG.CCC..  
C.....AGG..T.....A.....CAATTGC.TCA.  
St. Louis encephalitis virus  
BFS1750 ..T...T.....T CA .CTTG .. A.....AA.CCG..C  
C.....AGAC..G.....A.....T...GTT..CGC  
1750-Std ..T...T.....T CA .CTTG .. A.....AA.CCG..C  
TD6-4G ..T...T.....T CA .CTTG .. A.....AA.CCG..C  
C.....AGAT..G.....A.....T...GTT..CGC  
Coav750 ..T...T.....T CA .CTTG .. A.....AA.CCG..C  
L695121.05 ..T...T.....T .A .CTTG .. A.....AA.CCG..C  
C.....AGAC..G.....A.....T...GTT..CGC  
TNW771K ..T...T.....T .A .CTTG .. A.....AA.CCG..C  
C.....AGAC..G.....A.....T...GTT..CGC  
MSI-7 ..T...T.....T .A .CTTG .. A.....AA.CCG..C  
C.....AGAC..G.....A.....T...GTT..CGC  
Kern217 ..T...T.....T .A .CTTG .. A.....AA.CCG..C  
C.....AGAC..G.....A.....T...GTT..CGC  
Coav808 ..T...T.....T .A .CTTG .. A.....AA.CCG..C  
C.....AGAC..G.....A.....T...GTT..CGC  
TBH-28 ..T...T.....T .A .TTTG .. A.....AA.CCG..C  
C.....AGAC..G.....A.....T...GTT..CGC

AGAC..G....

AGAT..G....

VR1265 ..T...T...T...A .CTTG .. A.....AA.CCG..C  
CoarV353 .....AGAC.G.....A.....T...GTC.CGC  
Murray Valley encephalitis virus  
VR77 .....AGAC.G.....A.....T...CA .CTTG  
.....A.....T...OTT.CGC  
CC.....GT.....T...AAG ... A G T.....AG..CG.C .....A.G.G.T...C.....ACT.T  
AF161266 .CC.....GT.....T...AAG ... A G T.....AG..CG.C .....A.G.G.T...C.....ACT.T  
M35172 .CC.....GT.....T...AAG ... A G T.....AG..CG.C .....A.G.G.T...C.....ACT.T  
Dengue virus type 1  
U88537 AT...GT.GCA....T.....T.CCRAGAC AC..CGCAGCA GC GG.....A.ACC.GG  
G.....CCCTG.TG.T.....A.....CC.ACA.C.....  
U88536 AT...GT.GCA....T.....T.CCRAGAC AC..CGCAGCA GC GG.....A.ACC.GG  
G.....CCCTG.TG.T.....A.....CC.ACA.C.....  
U88535 AT...GT.GCA....T.....T.CCRAGAC AC..CGCAGCA GC GG.....A.ACC.GG  
G.....CCCTG.TG.T.....A.....CC.ACA.C.....  
M87512 AT...GT.GCA....T.....T.CCRAGAC AT..CGCAGCA GC GG.....A.ACC.GG  
G.....TCCG.TG.T.....A.....CG.ATA.C.T.....  
AV206457 AT...GT.GCA....T.....T.CCRAGAC AC..CGCAGCA GC GG.....A.ACC.GG  
G.....CC.TG.TG.T.....A.....CC.ACA.C.....  
AV145123 AT...GT.GCA....T.....T.CCRAGAC AC..CGCAGCA GC GG.....A  
A.....CC.ACA.C.....  
AY145122 AT...GT.GCA....T.....T.CCRAGAC AC..CGCAGCA GC GG.....AG.CAGGA  
G.....CTC.T.T.....A.....CC.ACA.C.....  
AY145121 AT...GT.GCA....T.....T.CCRAGAC AC..CGCAGCA GC GG.....AG.CAGGA  
G.....CTC.T.T.....A.....CC.ACA.C.....  
AF514889 AT...GT.GCA....T.....T.CCRAGAC AC..CGCAGCA GC GG.....A.ACC.GG  
G.....CC.TG.TG.T.....A.....CC.ACA.C.....  
AF514885 AT...GT.GCA....T.....T.CCTAGAC AT..CGCAGCA GC GG.....A.ACC.TG  
G.....CC.TG.TG.T.....A.....CC.ATA.C.....  
AF514883 AT...GT.GCA....T.....T.CCTAGAC AT..CGCAGCA GC GG.....A.ACC.TG  
G.....CC.TG.TG.T.....A.....CC.ATA.C.....  
AF514878 AT...GT.GCA....T.....T.CCRAGAC AC..CGCAGCA GC GG.....A.ACC.GG  
G.....CC.TG.TG.T.....A.....CC.ACA.C.....  
AF514876 AT...GT.GCA....T.....T.CCTAGAC AT..CGCAGCA GC GG.....A.ACC.TG  
G.....CC.TG.TG.T.....A.....CC.ATA.C.....  
AF513110 AT...GT.GCA....T.....T.CCRAGAC AT..CGCAGCA GC GG.....A.ACC.GG  
G.....CCCTG.TG.T.....A.....CC.ACA.C.....  
AF350498 AT...GT.GCA....T.....T.CCAPAAC AC..CGCAGCA GC GG.....A.ACC.GG  
G.....CCCTG.TG.T.....A.....CC.ATA.C.T.....  
AF311958 AT...GT.GCA....T.....T.CCTAGAC AT..CGCAGCA GC GG.....A.ACC.TG  
G.....CC.TG.TG.T.....A.....CC.TCA.C.....  
AF311957 AT...GT.GCA....T.....T.CCTAGAC AT..CGCAGCA GC GG.....A.ACC.TG  
G.....CC.TG.TG.T.....A.....CC.ACA.C.....  
AF311956 AT...GT.GCA....T.....T.CCTAGAC AT..CGCAGCA GC GG.....A.ACC.TG  
G.....CC.TG.TG.T.....A.....CC.ACA.C.....  
AF310148 AT...GT.GCA....T.....T.CCRAGAC AT..CGCAGCA GC GG.....A.ACC.GG G.....CCCTG.TG.T.....

AF310147 AT...GT.GCA.....T.....T.CCARRAC AC..CGCAGCA GCGG.....A.ACC.GG  
S.....CCCTG.TG.T.....A.....CC..ATA.C..T.  
AF310146 AT...GT.GCA.....T.....T.CCTAGAC AT..CGCAGCA GCGG.....A.ACC.TG  
G.....CCCTG.TG.T.....A.....CC..ACA.C..T.  
AF309641 AT...GT.GCA.....T.....T.CCGAAC AT..CGCAGCA GCGG.....A.ACC.GG  
G.....CCCTG.TG.T.....A.....CC..ATA.C..T.  
AF298808 AT...GT.GCA.....T.....T.CCARRAC AC..CGCAGCA GCGG.....A.ACC.GG  
G.....CCCTG.TG.T.....A.....CC..ATA.C..T.  
AF298807 AT...GT.GCA.....T.....T.CCARRAC AT..CGCAGCA GCGG.....A.ACC.GG  
G.....CCCTG.TG.T.....A.....CC..ACA.C..T.  
AF226687 AT...GT.GCA.....T.....T.CCAGAC AT..CGCAGCA GCGG.....A.ACC.GG  
G.....CCCTG.TG.T.....A.....CC..ACA.C..T.  
AF226686 AT...GT.GCA.....T.....T.CCAGAC AT..CGCAGCA GCGG.....A.ACC.GG  
G.....CCCTG.TG.T.....A.....CC..ACA.C..T.  
AF226685 AT...GT.GCA.....T.....T.CCTAGAC AT..CGCAGCA GCGG.....A.ACC.TG  
G.....CCCTG.TG.T.....A.....CC..ACA.C..T.  
AF180818 AT...GT.GCA.....T.....T.CCAGAC AC..CGCAGCA GCGG.....A.ACC.GG  
S.....CCCTG.TG.T.....A.....CC..GTA.C..T.  
AF180817 AT...GT.GCA.....T.....T.CCAGAC AC..CGCAGCA GCGG.....A.ACC.GG  
G.....CCCTG.TG.T.....A.....CC..GTA.C..T.  
GA.....CCCTG.TG.T.....A.....CC..ATA.T..T.  
AB074760 AT...GT.GCA.....T.....T.CCARRAC AC..CGCAGCA GCGG.....A.ACC.GG  
G.....CCCTG.TG.T.....A.....CC..ATA.C..T.  
VR344-3 AT...GT.GCA.....AT.....T.CCAGAC AC..CGCAGCA GCGG.....A.ACC.GG  
G.....CCCTG.TG.T.....A.....CC..ATA.C..T.  
Denque virus type 2  
AF022434 AT...CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C.GA  
AF022435 AT...CGT.GT.....C.....T.CCTC AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A  
AF022436 AT...CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A  
AF022437 AT...CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A  
AF022438 AT...CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A  
AF022439 AT...CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A  
AF022440 AT...CGT.GT.....C.....T.CCTC AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A  
AF022441 AT...CGT.GT.....C.....T.CCTC AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A  
AF038402 AT...CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTCCT.....A.....CCCAA  
A.C..A  
AF038403 AT...CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTCCT.....A.....CCCAA  
A.C..A  
AF100145 AT...CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTCCT.....A.....CCCAA  
A.T..A

AF100146 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
AGC..A.  
AF100147 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A.  
AF100148 AT..TGT.GT.....C.....T.CCTT C AG.TCGCAGCAACAATGGG.....AGG..GA T.....TCTCACT.....A.....CCCAA  
A.C..A.  
AF100149 AT..CGT.GT.....C.....T.CCTT AC AG.TCGCAGCAACAATGGG.....AGG..GA T.....CCTCACT.....A.....CCCAA  
A.C..A.  
AF100150 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAACGGG.....AGG..GA T.....TCTCACT.....A.....CCCAA  
A.C..A.  
AF100151 AT..CGT.GT.....C.....T.CCTT AC AG.TCGCAGCAACAATGGG.....AGG..GA T.....TCTCACT.....A.....CCCAA  
G.C..A.  
AF100458 AT..CGT.GT.....C.....T.CCTT AC AG.TCGCAGCAACAATGGG.....AGG..GA  
TCTCACT.....A.....CCCAA A.C..A.  
AF100459 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A.  
AF100460 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A.  
AF100461 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A.  
AF100462 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A.  
AF100463 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A.  
AF100464 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGCA.GA T.....TCTC.CT.....A.....CCCGA  
A.C..A.  
AF100465 AT..CGT.GT.....C.....T.CCTT AC AG.TCGCAGCAACAATGGG.....AGG..GA T.....TCTCACT.....A.....CCCAA  
G.C..A.  
AF100466 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAACGGG.....AGG..GA T.....TCTCACT.....A.....CCCAA  
A.T..A.  
AF100467 AT..CGT.GT.....C.....T.CCTT AC AG.TCGCAGCAACAATGGG.....AGG..GA  
TCTCACT.....A.....CCCAA A.C..A.  
AF100468 AT..CGT.GT.....C.....T.CCTT AC AG.TCGCAGCAACAATGGG.....AGG..GA  
TCTCACT.....A.....CCCAA A.C..A.  
AF100469 AT..CGT.GT.....C.....T.CCTT C AG.TCGCAGCAACAATGGG.....TGG..GA T.....TCTCACT.....A.....CCCAA  
A.C..A.  
AF119661 AT..CGT.GG.....C.....T.CCTT AC A..TCGCAGCAACAACGGG.....AGG..GA T.....TCTCACT.....ATT.....CCCAA  
A.C..A.  
AF169687 AT..CGT.GT.....C.....T.CCTC AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A.  
AF169678 AT..CGT.GT.....C.....T.CCTC AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A.  
AF169688 AT..CGT.GT.....C.....T.CCTC AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A.  
AF169679 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AAG..GA T.....TCTCACT.....A.....CCCGA  
A.C..A.  
AF169680 AT..CGT.GT.....C.....T.CCTC AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....A.....CCCGA  
A.C..A.

AF169681 AT..CGT.GT.....C.....T.CCTC AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTCCT.....A.....CCCGA  
A.C..A.  
AF169682 AT..CGT.GT.....C.....T.CCTC AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTCCT.....A.....CCCGA  
A.C..A.  
AF169683 AT..CGT.GT.....C.....T.CCTC AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTCCT.....A.....CCCGA  
A.C..A.  
AF169684 AT..CGT.GT.....C.....T.CCTC AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTCCT.....A.....CCCGA  
A.C..A.  
AF169685 AT..CGT.GT.....C.....T.CCTC AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTCCT.....A.....CCCGA  
A.C..A.  
AF169686 AT..CGT.GT.....C.....T.CCTC AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTCCT.....A.....CCCGA  
A.C..A.  
AF204177 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGG...GA T.....TCTCACT.....A.....CCCAA  
A.C..A.  
AF204178 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGG...GA T.....TCTCACT.....A.....CCCAA  
A.C..A.  
AF208496 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAACGGG.....AGG...GA T.....TCTCACT.....A.....CCCAA  
A.C..A.  
AF276619 AT..CGT.GT.....C.....T.CCTT GC A..TCGCAGCAACAATGGG.....AGG...GA T.....TCTCACT.....A.....CCCGA  
A.T..A.  
AF309950 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGG...GA T.....TCTCACT.....A.....CCCGA  
A.T..A.  
AF309951 AT..CGT.GT.....C.....T.CCTT AC AG..TCGCAGCAACAACGGG.....AGG...GA TA.....TCTCACC.....A.....CCCAA  
A.C..A.  
AF305592 AT..TGT.GT.....C.....T.CCTT AA G..TCGCAGCAAAATGGG.....AGG..TG.  
T.....CCCACT.....C.....A.....CCAG.....A.  
AF309953 GT..TGT.GT.....C.....T.CCTT AA G..TCGCAGCAAAAATGGG.....AGG..TG.  
T.....CCCACT.....A.....CCAG.....A.  
AF309954 AT..TGT.GT.....C.....T.CCTT AA G..TCGCAGCAAAAATGGG.....AGG..TG.  
T.....CCCACT.....A.....CCAG.....A.  
AF309955 AT..TGT.GT.....C.....T.CCTT AA G..TCGCAGCAAAATGGG.....AGG..TG.  
T.....CCCACT.....A.....CCAG.....A.  
AF309956 AT..TGT.GT.....C.....T.CCTT AA G..TCGCAGCAAAATGGG.....AGG..TG.  
T.....CCCACT.....A.....CCAG.....A.  
AF309957 AT..TGT.GT.....C.....T.CCTT AA G..TCGCAGCAAAATGGG.....AGG..TG.  
T.....CCCACT.....A.....CCAG.....A.  
AF309958 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGG...GA T.....TCTCACT.....A.....CCCGA  
A.T..A.  
AF309959 AT..TGT.GT.....C.....T.CCTT AA A..TCGCAGCAAAAATGGG.....AGG..TGG T.....CCCACT.....A.....CCCAG  
A.C..A.  
AF309960 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGG...GA T.....TCTCACT.....A.....CCCGA  
A.T..A.  
AF309961 AT..TGT.GT.....C.....T.CCTT AA GG..TCGCAGCAAAATGGG.....AGG..TGG T.....CCCACT.....A.....CCCA  
A..T..A.  
AF309962 AT..CGT.GT.....C.....T.CCTT GC A..TCGCAGCAACAATGGG.....AGG...GA T.....TCTCACT.....A.....CCCGA  
A.T..A.  
AF309963 AT..CGT.GT.....C.....T.CCTT AC A..GTGCAGCAGCAATGGG.....AGG...GA T.....TCTCACT.....A.....CCCGA  
A.T..A.

AF309964 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGG...GA T.....TCTCACT.....A.....CCCGA  
 A.T..A.  
 AF309965 AT..CGT.GT.....C.....T.CCTT C AG.TCGCAGCAACAATGGG.....AGG...GA T.....TCTCACT.....A.....CCCAA  
 A.C..A.  
 AF359579 AT..CGT.GT.....C.....T.CCTT GC A..TCGCAGCAACAATGGG.....AGG...GA T.....TCTCACT.....A.....CCCGA  
 A.T..A.  
 AF489932 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAACGGG.....AGG...GA T.....TCTCACT.....A.....CCCAA  
 A.C..A.  
 AJ487271 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....CCCGA  
 A.C..A.  
 AY037116 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGG...GA T.....TCTCACT A.....CCCGA  
 A.T..A.  
 M19197 AT..CGT.GT.....C.....T.CCTT AC AG.TCGCAGCAACAATGGG.....AGG...GA T.....TCTCACT.....A.....CCCAA  
 A.C..A.  
 M20558 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAACGGG.....AGG...GA T.....TCTCACT.....A.....CCCAA  
 A.C..A.  
 M29095 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGG...GA T.....TCTCACT.....A.....CCCAA  
 A.C..A.  
 M84727 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....CCCGA  
 A.C..A.  
 M84728 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....CCCGA  
 A.C..A.  
 U61245 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....CCCGA  
 A.C.GA.  
 U61246 AT..CGT.GT.....C.....T.CCTC AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....CCCGA  
 R.C..A.  
 U61247 AT..CGT.GT.....C.....T.CCTC AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....CCCGA  
 A.C..A.  
 U61248 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....CCCGA  
 A.C..A.  
 U87411 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....CCCGA  
 A.C..A.  
 U87412 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TCTC.CT.....CCCGA  
 A.C..A.  
 VR345-2 AT..CGT.GT.....C.....T.CCTT AC A..TCGCAGCAACAATGGG.....AGGC..GA T.....TC.C.CT.....CCCGA  
 A.C..A.  
 Dengue virus type 3  
 AF310149 AC..TGT.GCA.....C.....T.CCATGAC AC..CGCAGCA GCGG.....GAG.ACTGAGG.....CC..CTTGCA.....A.....CC..A  
 A.T..  
 M93130 AC..TGT.GCA.....T.....T.CCATGAC AC..CGCAGCA GCGG.....GAG.ACTGAGG.....CC..CTTGCA.....TA.....CC..A  
 A.C..  
 AF317645 AC..TGT.GCA.....T.....T.CCATGAC AC..CGCAGCA GCGG.....GAG.ACTGAGG.....CC..CTTGCA.....TA.....CC..A  
 A.C..  
 AY099336 AC..TGT.GCA.....C.....T.CCATGAC AC..CGCAGCA GCGG.....GAG.ACTGAGG.....CC..CTTGCA.....A.....CC..A  
 A.T..  
 AY099337 AC..TGT.GCA.....C.....T.CCATGAC AC..CGCAGCA GCGG.....GAG.ACTGAGG.....CC..CTTGCA.....A.....CC..A  
 A.T..  
 AY099343 AC..TGT.GCA.....C.....T.CCATGAC AC..CGCAGCA GCGG.....GAG.ACTGAGG.....CC..CTTGCA.....A.....CC..A  
 A.T..

AY099344	AC..TGT.GCA.....C.....	T.CCATGAC	AC..CGCAGCA	GCGG.....GAG.ACTGAGG.....CC..CTTGCA.....A.....CC..A
AY099345	AC..TGT.GCA.....C.....	T.CCATGAC	AC..CGCAGCA	GCGG.....GAG.ACTGAGG.....CC..CTTGCA.....A.....CC..A
AY099346	AC..TGT.GCA.....C.....	T.CCATGAC	AC..CGCAGCA	GCGG.....GAG.ACTGAGG.....CC..CTTGCA.....A.....CC..A
AY099347	AC..TGT.GCA.....C.....	T.CCATGAC	AC..CGCAGCA	GCGG.....GAG.ACTGAGG.....CC..CTTGCA.....A.....CC..A
VR1256-3	AC..TGT.GCA.....T.....	T.CCATGAC	AC..CGCAGCA	GCGG.....GAG.ACTGAGG.....CC..CTTGCA.....TA.....CC..A
VR1256-5	AC..TGT.GCA.....T.....	T.CCATGAC	AC..CGCAGCA	GCGG.....GAG.ACTGAGG.....CC..CTTGCA.....TA.....CC..A
Dengue virus type 4				
M14931	GT..CAT.TT.....C.....	T.CCATCACTGACA...	CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
AF289029	GT..CAT.TT.....C.....	T.CCATCACCACCA...	CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
AF310150	GT..CAT.TT.....T.....	T.CCATTA.CAACA..	CGCAGCAC	AA.GGG.....GAG.C.GGAT.....CTC.T.AT.....
AF310152	GT..CAT.TT.....T.....	T.CCATTA.CAACA..	CGCAGCAC	AA.GGG.....GAG.C.GGAT.....CTC.T.AT.....
AF310153	GT..CAT.TT.....C.....	T.CCATCACTGACA...	CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
AF326573	GT..CAT.TT.....C.....	T.CCATCACTGACA...	CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
AF326825	GT..CAT.TT.....C.....	T.CCATCACTGATA...	CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
AF326826	GT..CAT.TT.....C.....	T.CCATCACTGACA...	CGCAGCA	AA.GGG.....A.....CCCAACA
AF326827	GT..CAT.TT.....C.....	T.CCATCACTGACA...	CGCAGCA	AA.GGG.....A.....CCCAACA
AF375822	GT..CAT.TT.....C.....	T.CCATCACTGACA...	CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
AY152039	GT..CAT.TT.....C.....	T.CCATCACTGACA...	CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
AY152043	GT..CAT.TT.....C.....	T.CCATCACTGACA...	CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
AY152047	GT..CAT.TT.....C.....	T.CCATCACTGACA...	CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
AY152051	GT..CAT.TT.....C.....	T.CCATCACTGACA...	CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
AY152055	GT..CAT.TT.....C.....	T.CCATCACTGACA...	CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
AY152059	GT..CAT.TT.....C.....	T.CCATCACTGACA...	CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
AY152063	GT..CAT.TT.....C.....	T.CCATCACTGACA...	CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
AY152067	GT..CAT.TT.....C.....	T.CCATCACTGACA...	CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
AY152071	GT..CAT.TT.....C.....	T.CCATCACTGACA...	CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA

[illegible]



[illegible]

[illegible]

AY152171	GT..CAT.TT.....C.....T.CCATCACTGACA...CGCAGCA	AA.GGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
C..		
VR217-1	GT..CAT.TT.....C.....T.CCATCACTAACA...CGCAGCA	AAAGGG.....GAAGCC.GGAG.....CTC.T.T.....A.....CCCAACA
C..		

\*Two potential binding sites for SEQ ID NOS.: 28 & 70 can be found in this region. These are denoted by single underline for SEQ ID NO.: 28, and shading for SEQ ID NO.: 70.

KY1129 5'-GTAAGCC CTCAGAACCTCTCGGAA-3'

WNV

AF317203	.....
AF196835	.....
AF260967	.....
AF260968	.....
AF260969	.....
AF481864	.....
M12294	.....
AF206518	.....
AF317203	.....
AF202541	.....
AF404757	.....
AF404753	.....
AF404754	.....
AF404755	.....
AF404756	.....
AF017254	.....
L48977	.....
AF196536	.....
AF196537	.....
AF196538	.....
AF196540	.....
AF196541	.....
AF196542	.....
AF196543	.....
AF458343	.....C.....
AF458344	.....
AF458347	.....
AF458348	.....
AF458350	.....
AF458352	.....C.....
AF458353	.....
AF458355	.....
AF458358	.....
AF458360	.....
AF458361	.....
AF208017	.....
AF196539	.....
AF196535	.....
AF458359	.....
AF458357	.....
AF458354	.....
AF458349	.....
AF458345	.....
AF458346	.....T.....T.....
AF533540	.....

JEV

AB051292	.A.....
AF014160	.A.....
AF014161	.A.....
AF045551	.A.....
AF069076	.A.....
AF075723	.A.....
AF080251	.A.....G.....
AF098735	.A.....
AF098736	.A.....
AF098737	.A.....
AF217620	.A.....
AF221499	.A.....
AF221500	.A.....
AF254452	.A.....
AF254453	.A.....
AF315119	.A.....T.....
AF416457	.A.....
AF486638	.A.....
U14163	.A.....
U15763	.A.....

Fig. 4A

KY1129 5'-GTAAGCC CTCAGAACCGTCTCGGAA-3'

**JEV cont.**

L48961	.A.....
U47032	.A.....
M18370	.A.....
M55506	.A.....
L78128	.A.....
D90195	.A.....
D90194	.A.....
AF311748	.A.....
AF092550	.A.....
AF092552	.A.....
AF092553	.A.....
AF139531	.A.....
AF148900	.A.....
AF148902	.A.....
AF218068	.A.....
AF289816	.A.....
AF318291	.A.....
L48967	.A.....
L48968	.A..C.....
LS4067	.A.....
LS4068	.A.....
LS4069	.A.....
LS4070	.A.....
LS4071	.A.....
LS4072	.A.....
LS4122	.A.....
LS4123	.A.....
AF306514	.A.....
AF306515	.A.....T.....
AF306516	.A.....T.....
AF306517	.A.....A.....T.....

**MVEV**

AF161266	.A.....T.C.....
M35172	.A.....T.C.....
L48972	.A.....T.C.....
L48973	.A.....T.C.....
L48974	.A.....T.C.....C.....
L48975	.A.....T.C.....
L48976	.A.....T.C.....T.....

**KUNJIN**

AF458351	.....G.
AF458356	.....
AF297840	.....C.....
AF297841	.....
AF297842	.....
AF297843	.....
AF297844	.....
AF297845	.....
AF297846	.....C.....
AF297847	.....C.....
AF297848	.....
AF297849	.....
AF297850	.....C.....
AF297851	.....C.....GT
AF297852	.....C.....
AF297853	.....C.....
AF297854	.....
AF297855	.....
AF297856	.....
AF297857	.....G.....
AF297858	.....
AF297859	.....
L48978	.....
L49311	.....
D00246	.....
L48979	.....
L24512	.....

**KOUTANGO**

L48980	.....
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Fig. 4B

KY1130 5'-TCCTAGTCTA TCCCAGGTGTCAA-3'

WNV

AF196835	.....
AF260967	.....
AF260968	.....
AF260969	.....
AF481864	.....
M12294	C.....
AF206518	.....
AF317203	.....
AF202541	.....
AF404757	.....
AF404753	.....
AF404754	.....
AF404755	.....
AF404756	.....
AF017254	.....A.....
L24512	.....

Kunjin

JEV

AB051292	...C.....T.....
AF014160	...C.....T.....
AF014161	...C.....T.....
AF045551	...C.C....T.....
AF069076	...C.....T.....
AF075723	...C.....T.....
AF080251	...C.....T.....
AF098735	...C.....T.....
AF098736	...C.....T.....
AF098737	...G.....TCT.....
AF217620	...C.....T.....
AF221499	...C.....T.....
AF221500	...C.....T.....
AF254452	...C.....T.....
AF254453	...C.....T.....
AF315119	...C.....T.....
AF416457	...C.....T.....
AF486638	...C...A..T.....
U14163	...C.....T.....
U15763	...C.....T.....
L48961	...C.....T.....
U47032	.....T.....
M18370	...C.....T.....
M55506	...C.....T.....
L78128	...C.....T.....
D90195	...C.....T.....
D90194	...C.....T.....
AF311748	...C.....T.....
AF306514	...C.C....T.....
AF306515	...C.....T.....
AF306516	...C.....T.....
AF306517	...C.C....T.....
D00037	...C.....T.....
M14933	...C.....T.....

MVEV

AF161266	.....TT.....
M35172	.....TT.....

Fig. 4C

KY1131 5'-GGACTAGAGGTTAGAGGAGACCCCGCG-3'

WNV

AF196835 .....  
AF260967 .....  
AF260968 .....  
AF260969 .....  
AF481864 .....  
M12294 .....T  
AF206518 .....  
AF317203 .....  
AF202541 .....  
AF404757 .....  
AF404753 .....  
AF404754 .....  
AF404755 .....  
AF404756 .....  
AF017254 .....  
AF208017 .....T.....A..T  
*Kunjin* L24512 .....T

JEV

AB051292 .....T..  
AF014160 .....T..  
AF014161 .....T..  
AF045551 .....T..  
AF069076 .....T..  
AF075723 .....T..  
AF080251 .....T..  
AF098735 .....T..  
AF098736 .....T..  
AF098737 .....T..  
AF217620 .....T..  
AF221499 .....T..  
AF221500 .....T..  
AF254452 .....T..  
AF254453 .....T..  
AF315119 .....T..  
AF416457 .....T..  
AF486638 .....T..  
U14163 .....T..  
U15763 .....T..  
L48961 .....T..  
~~L24512~~.....  
U47032 .....T..  
M18370 .....T..  
M55506 .....T..  
L78128 .....T..  
D90195 .....T..  
D90194 .....T..  
AF311748 .....T..  
AF306514 .....T..  
AF306515 .....T..  
AF306516 .....T..  
AF306517 .....T..

MVEV

AF161266 .....A.TC  
M35172 .....A.TC

Fig. 4D